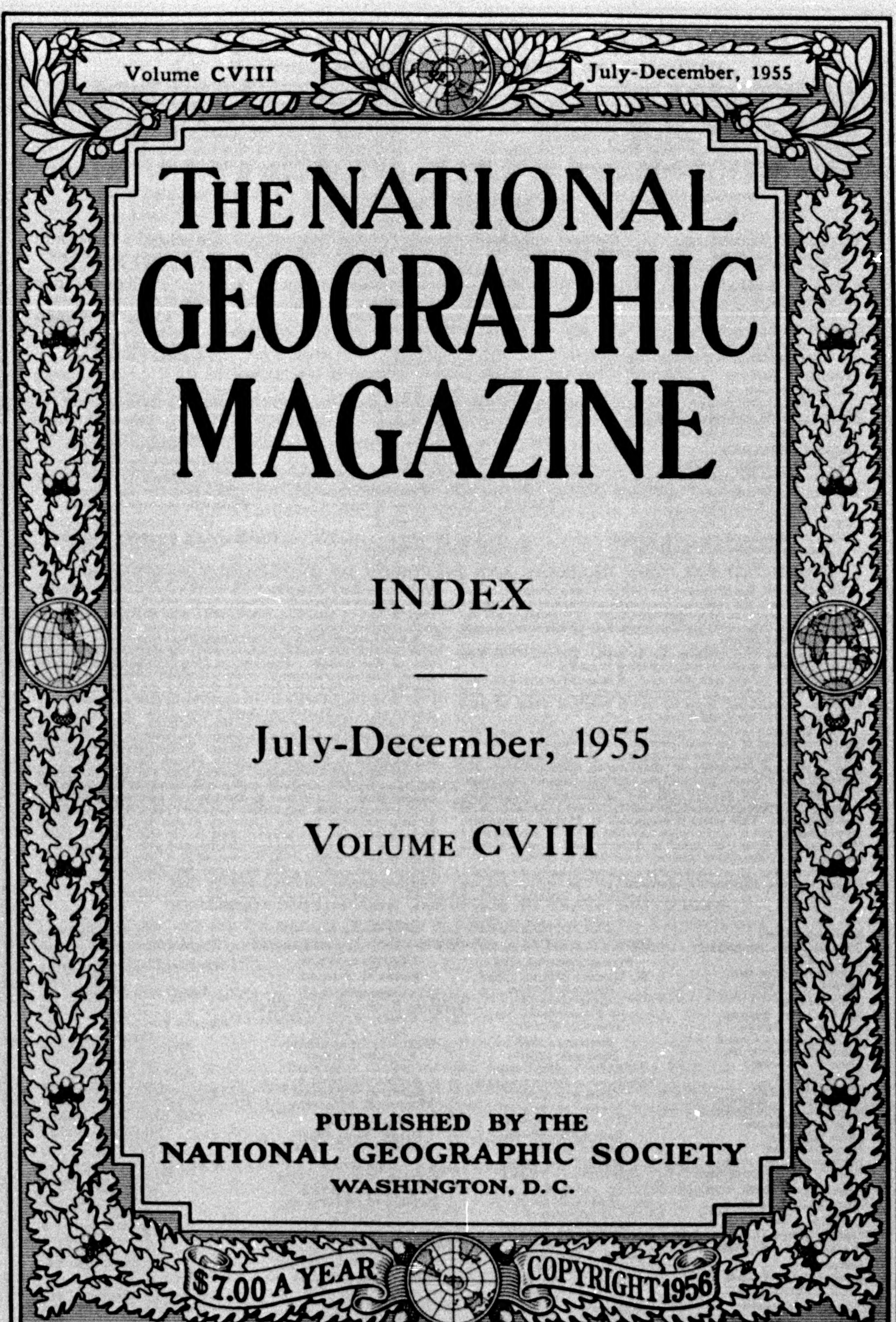

Volume CVIII
July-December, 1955

THE NATIONAL GEOGRAPHIC MAGAZINE

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July-December, 1955

VOLUME CVIII

PUBLISHED BY THE
NATIONAL GEOGRAPHIC SOCIETY
WASHINGTON, D. C.

$7.00 A YEAR

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In Mexico, The Society and the Smithsonian Institution, January 16, 1939, discovered the oldest dated work of man in the Americas. This stone is engraved, in Mayan characters, November 4, 291 B. C. (Spinden Correlation). It antedates by 200 years anything else dated in America and reveals a great center of early American culture, previously unknown.

On November 11, 1935, the stratosphere flight of the world's largest balloon, *Explorer II*, sponsored by The Society and the U. S. Army Air Corps, reached a world-record altitude of 72,395 feet. Capts. Albert W. Stevens and Orvil A. Anderson took aloft a ton of scientific instruments and obtained results of extraordinary value.

A notable undertaking in astronomy was launched in 1949 by The Society and Palomar Observatory of the California Institute of Technology. This project photomapped vast areas of space, making available to observatories all over the world, at less than cost, the most extensive sky atlas yet achieved.

In 1948 The Society sent seven expeditions to study the sun's eclipse on a 5,320-mile arc from Burma to the Aleutians.

A Greek cargo ship sunk in the Mediterranean 2,200 years ago was found in 1952 and is being excavated by the National Geographic Society-*Calypso* Marine Archeological Expedition led by Capt. J.-Y. Cousteau of the French Navy.

The National Geographic Society and the Royal Ontario Museum in 1951 explored and measured newly found Chubb meteor crater, 11,500 feet in diameter, in northern Quebec.

The Society and individual members contributed $100,000 to help preserve for the American people the finest of California's sequoias, the Giant Forest in Sequoia National Park.

One of the world's largest icefields and glacial systems outside the polar regions was discovered in Alaska and Yukon by Bradford Washburn while exploring for The Society and the Harvard Institute of Exploration in 1938.

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  October Holiday on the Outer Banks: Legends of Shipwrecked Galleons, Pirate Lairs, and the Lost Colony Enliven North Carolina's Wind-swept Island Playground. By Nike Anderson. With illustrations from photographs by J. Baylor Roberts. 4 ills. in black and white, 28 ills. in color, 1 half-page map. Oct. 501–529
  This Young Giant, Indonesia: From Sumatra to Celebes and from Bali to Borneo, a New Sense of Urgency Grips the 5-year-old Nation of 3,000 Islands and 79,000,000 People. By Beverley M. Bowie. With illustrations from photographs by J. Baylor Roberts and others. 9 ills. in black and white, 35 ills. in color. Sept. 351–392
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